AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1-4. (canceled).

5. (currently amended): A peripheral device for a programmable logic controller, comprising:

an instruction table for ~~correlatively~~ storing instructions and <u>corresponding</u> input/output types of parameters for the instructions;

a search/<u>determination</u>~~discrimination~~ means for searching the instruction table for an instruction in a code in a portion of a sequence program selected as diversion data from an existing diversion-source sequence program, to <u>determine</u>~~discriminate~~ a <u>corresponding</u>~~an~~ input/output type of a parameter for the instruction;

a search result creating/storing means for creating and storing <u>a</u> search result table by combining an address in the code in the selected portion of the sequence program, with the <u>determined corresponding</u> input/output type;

a component data creating means for creating a variable data table by replacing the <u>determined corresponding</u> input/output types stored in the search result table with variable names, and for creating component data by adding the corresponding variable names to variables and to circuit information; and

a component data diversion means for diverting the component data into an arbitrary position in a designated sequence program.

6. (currently amended): <u>The</u>~~A~~ peripheral device for <u>the</u>~~a~~ programmable logic controller according to claim 5, further comprising:

a sequence-program-component storing means for storing into a component storage the

created component data as a sequence program component;

a sequence-program-component displaying device for displaying the sequence program

components stored in the component storage;

a sequence-program-component selecting means for selecting a desired sequence

program component from the sequence program components displayed by the sequence-

program-component displaying device; and

a sequence-program-component diversion means for diverting the selected sequence

program component into a new sequence program.

7. (currently amended): A program creating method of copying a portion of an existing sequence

program and pasting the portion into a new sequence program, for a peripheral device for a

programmable logic controller, the method comprising:

a search/determination~~discrimination~~ step of searching an instruction table for

~~correlatively~~ storing instructions and corresponding input/output types of parameters for the

instructions, for an instruction in a code in a portion of the sequence program selected as

diversion data from an existing diversion-source sequence program, to determine~~discriminate~~ a

corresponding~~an~~ input/output type of a parameter for the instruction in the code;

a search result creating/storing step of creating and storing a search result table by

combining the determined corresponding~~discriminated~~ input/output type, with an address in the

code in the selected portion of the sequence program;

a component data creating step of creating a variable data table by replacing the

determined corresponding input/output types stored in the search result table with variable

names, and of creating component data by adding the corresponding variable names to variables

and to circuit information; and

a component data diversion step of diverting the component data into an arbitrary

position in a new sequence program as a diversion destination.

8. (currently amended): The~~A~~ program creating method according to claim 7, for the~~a~~ peripheral

device for the~~a~~ programmable logic controller, the method further comprising:

a sequence-program-component storing step of storing into a component storage the

created component data as a sequence program component;

a sequence-program-component displaying step of displaying the sequence program

components stored in the component storage;

a sequence-program-component selecting step of selecting a desired sequence program

component from the sequence program components displayed in the sequence-program-

component displaying step; and

a sequence-program-component diversion step of diverting into a new sequence program

the desired sequence program component that has been selected.

9. (new): The peripheral device for the programmable logic controller according to claim 5,

wherein the input/output types of the parameters for the instructions comprise an input type, an

output type, and an internal type.

10. (new): The program creating method according to claim 7, for the peripheral device for the

programmable logic controller, wherein the input/output types of the parameters for the

instructions comprise an input type, an output type, and an internal type.

11. (new): The peripheral device for the programmable logic controller according to claim 5,

wherein a user selects the portion of the sequence program from the existing diversion-source

sequence program being displayed.

12. (new): The program creating method according to claim 7, for the peripheral device for the

programmable logic controller, the method further comprising a user selecting the portion of the

sequence program from the existing diversion-source sequence program being displayed.